

“Innovation Challenge” Course for Maryland High School Students

Summer 2010

University of Maryland, Baltimore County

Objectives

- Stimulate high school students' interests in science and engineering
- Foster innovation in engineering design

Approach

- Design-Build-Test approach
- Focus on design innovation
- Design theme: push and pull toys
- Use rapid prototyping (RP) machines
- Graduate assistant and undergraduate tutor support



UMBC Virtual Reality & Mechanisms Lab

- Founded in 2007
- Research interests: mechanism design, virtual reality applications
- Facilities



Contact

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Registration

- Eligibility: Rising 10-12 grade students with some CAD experience
- Material cost: \$50, due July 13
- No registration fee!
- Application deadline: **May 31, 2010**
- Application acceptance: June 14, 2010
- Course delivery: July 13-16, 19-23 2010, total 9 weekdays

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